

# ZF18K4E-TF5

HCFC, R-22, 60Hz, 3- Phase, 200/230 V  
Medium Temp, Liquid Injected



**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Performance

Evap(°F)/Cond(°F)	<u>20 / 120</u>	<u>0 / 110</u>
RG(°F)/Liq(°F)	<u>65 / 120</u>	<u>65 / 110</u>
Capacity (Btu/hr)	45400	31700
Power (Watts):	5800	4820
Current (Amps):	18.00	15.90
EER (Btu/Wh):	7.80	6.60
Mass Flow (lbs/hr):	665	438
Sound Power (dBA):	80 Avg	85 Max
Vibration (mils(peak- Record Date:	2.0 Avg	3.0 Max
	2004-07-27	

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	5.98
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	727.10
Stroke(in):	0.00		
Overall Length (in):	11.16	Mounting Length (in):	7.50
Overall Width (in):	9.67	Mounting Width (in):	7.50
Overall Height (in):	18.50	Mounting Height (in):	19.25 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		60	
Initial Oil Charge (oz):		64	
Net Weight (lbs):		87	
Internal Free Volume (in <sup>3</sup> ):		344.0	
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	156.0	MCC (Amps):	28.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	15-Jun-1994
LRA Low*:		Max Operating Current:	25.0		
RLA(=MCC/1.4;use for contactor selection):			20		
RLA(=MCC/1.56;use for breaker & wire size)			17.9		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-404A HFC	50	3	200/220	Low Temp, Liquid Injected
R-407A HFC	50	3	200/220	UL Low Temp
R-507 HFC	50	3	200/220	Low Temp, Liquid Injected
R-404A HFC	60	3	200/230	Low Temp, Low Condensing
R-407A HFC	60	3	200/230	UL Low Temp
R-22 HCFC	50	3	200/220	Medium Temp, Liquid Injected
R-22 HCFC	50	3	200/220	Low Temp, Liquid Injected
R-134a HFC	50	3	200/220	Medium Temp, Liquid Injected
R-134a HFC	50	3	200/220	Low Temp, Liquid Injected
R-134a HFC	50	3	200/220	High Temp
R-404A HFC	50	3	200/220	Medium Temp, Liquid Injected

## Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-507 HFC	50	3	200/220	Medium Temp, Liquid Injected
R-507 HFC	50	3	200/220	Low Temp, Low Condensing
R-407C HFC	50	3	200/220	
R-407C HFC	50	3	200/220	
R-407A HFC	50	3	200/220	
R-407A HFC	50	3	200/220	Low Temp, Liquid Injected
R-407F HFC	50	3	200/220	
R-407F HFC	50	3	200/220	Low Temp, Liquid Injected
R-22 HCFC	60	3	200/230	Low Temp, Liquid Injected
R-134a HFC	60	3	200/230	Medium Temp, Liquid Injected
R-134a HFC	60	3	200/230	Low Temp, Liquid Injected
R-134a HFC	60	3	200/230	High Temp
R-404A HFC	60	3	200/230	Medium Temp, Liquid Injected
R-404A HFC	60	3	200/230	Low Temp, Liquid Injected
R-507 HFC	60	3	200/230	Medium Temp, Liquid Injected
R-507 HFC	60	3	200/230	Low Temp, Liquid Injected
R-407C HFC	60	3	200/230	UL Medium Temp
R-407C HFC	60	3	200/230	Low Temp, Liquid Injected
R-407A HFC	60	3	200/230	
R-407A HFC	60	3	200/230	Low Temp, Liquid Injected
R-407F HFC	60	3	200/230	
R-407F HFC	60	3	200/230	Low Temp, Liquid Injected

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### Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
13	505-0819-00	1	CAP-DTC INJECTION PORT	
2	527-0116-00	1	SPACER-MOUNTING ASSM	
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
11	998-0010-02	1	SIGHT GLASS KIT	
14	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER SUCTION
14	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER SUCTION
14	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER
14	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER
10	998-0500-01	1	KIT-VALVE DTC	
7	998-0510-44	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
8	998-0510-64	1	SERV VALVE KIT 7/8 SWT	SUCTION ROTALOCK
9	998-7024-00	1	HEATER JUNCTION BOX KIT	

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### Accessories

<u>PartNumber</u>	<u>Description</u>
018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
018-0095-04	Crankcase heater - 240V, 70 W, 48" Lead length
018-0095-05	Crankcase heater - 480V, 70 W, 48" Lead length
018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
018-0095-07	Crankcase Heater, 120 volts, 70 watts, 48 inch
018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
527-0158-00	Hard Mount Kit
998-0540-04	Discharge gas thermostat kit 5/8" Line
998-0548-01	ZB48 & ZF25: Only: Discharge Line Thermostat 3/4" With Alarm, 36" Lead
998-5100-62	ZB48 & ZF25: Suction and Discharge Service Valves with Seals
998-7022-04	Discharge Line T-stat, 5/8", 36" Leads with Conduit Adapter
998-7022-07	ZB48 & ZF25 Only: Discharge Line Thermostat 3/4" With 36" Conduit
013-0094-00	Liquid Line Filter
013-0119-00	Removable Mesh DTC Filter
018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
018-0095-04	Crankcase heater - 240V, 70 W, 48" Lead length
018-0095-05	Crankcase heater - 480V, 70 W, 48" Lead length
018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
018-0095-07	Crankcase Heater, 120 volts, 70 watts, 48 inch
018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length

<u>PartNumber</u>	<u>Description</u>
018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
085-0160-00	3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.
085-CP2M-7K	Pressure Control
495-3803-00	Oil Control Reference Drawing
505-0788-00	Sound Blanket for ZF13K-ZF18K, ZS30K-ZS45K, ZB30K-ZB45K
527-0116-00	Spacer Mounting Assembly, CRN/P/T/5, & Some Scroll, 50/60Hz, 4ft
527-0157-00	High Durometer Mount Kit
998-0069-00	Adapter & Seal Kit
998-0157-00	Oil Level Control
998-0500-00	DTC Valve (Liquid Line 3/8" Sweat Tube)
998-0500-01	DTC Valve (Liquid Line 1/4" Flare)
998-0540-00	Discharge Line Thermostat 1/2", 12" Lead
998-0548-00	Discharge Line Thermostat 1/2", 36" Lead (W/Alarm Lead Wire)
998-1583-02	Injection capillary tube for ZF13:R404A/R507/R134a
998-1583-03	Injection capillary tube for ZF09:R22, ZF11:R22, ZF15:R404A/R507/R134a
998-1583-04	Injection capillary tube for ZF18:R404A/R507/R134a
998-1583-05	Injection capillary tube for ZF13:R22
998-1583-06	Injection capillary tube for ZF15:R22
998-1586-00	Injection capillary tube for ZF18:R22, ZF24:R22, ZF33:R22
998-5100-42	Suction & Discharge Valve Kit. includes rotalock suction and discharge service valves and seals. 7/8" Suction Valve, 1/2" Discharge Valve, 1" Suction Valve Seal, 3/4" Discharge Valve Seal. (ZF13-18K, ZS30-45K, ZB30-45K)
998-7002-01	Liquid Injection Kit (capillary tube not included), 120V
998-7002-02	Liquid Injection Kit (capillary tube not included), 240V
998-7022-02	Discharge Line Thermostat, 1/2", 36" Lead (W/Connector)
998-7022-03	Discharge Line Thermostat with 3/8" connector.
998-E022-01	Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.

**Common U.S. OEM Bill Of Materials**

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
251	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	Yes	-	-	-	-
256	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	Yes	-	-	-	-
261	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	Yes	-	-	-	-
263	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	-	-	-	-	-
266	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	Yes	-	-	-	-

**Common U.S. Service Bill Of Materials**

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
930						-	-	-	-	-	-
931	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	Yes	Yes	-	-	-	-
961	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	Yes	Yes	-	-	-	-

\* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.